XZ-LH100B-241080-A

Art.167104

Product features

- Built-in non isolated adjustable power color temperature LED driver
- Flicker-free LED driver
- Output current 200... 800 mA by DIP switch adjust
- Max. output power 100 W
- For luminaires with protection class I
- 5 years warranty

Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
200 mA	220…240 Vac 220…240 Vdc	50…240 Vdc	93%	± 15	0.9	193 x 30 x 21
250 mA		50…240 Vdc	94.5%			
300 mA		50…240 Vdc	94.5%			
350 mA		50…240 Vdc	94.5%	± 5%		
400 mA		50…240 Vdc	95%			
450 mA		50…222 Vdc	95%			
500 mA		50…200 Vdc	94.5%			
550 mA		50…182 Vdc	94.5%			
600 mA		50…167 Vdc	94%			
650 mA		50…154 Vdc	94%			
700 mA		50…143 Vdc	94%			
750 mA		50…133 Vdc	93.5%			
800 mA		50…125 Vdc	93.5%			

Electrical specifications

Mains voltage supply

Rated input voltage range	220…240 Vac; performance range
Max. input voltage range	198...264 Vac; operational safety range
Rated frequency range	0/50/60 Hz

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Performance/Operational safety	47...63 Hz
Max. input current	0.5 A @ 230 Vac & 0.5 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	198…280 Vdc; operational safety range

Protection against voltage peaks

Withstand voltage	I/p-FG: 1.5 kVac, < 5 mA 60sec
Mains surge immunity	L-N1 kV, L-FG 2 kV, N-FG 2 kV per IEC 61000-4-5

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 10%

Output data

Output current tolerance	200...300 mA ± 15 mA at rated input voltage range
Output current tolerance	350...800 mA ± 5% at rated input voltage range
Turn-on Delay time	0.5s at full load @ low rated input voltage
No load output voltage	≤ 300 Vdc
Ripple output current	5% (ripple = peak/average total 100 Hz)
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage

Protection functions output side

Short circuit protection	Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed
Over voltage protection	Over voltage protection: Hiccup mode. Protection device will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5…1.5 mm²; Output wire: 0.2…1.5 mm²
Wire stripping length	8…9 mm

Degree of protection

Protection rating	IP20

Operating data

Output current range	DIP control adjusts the current: 200…800 mA
Output voltage range	50…240 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

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Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 31.4 A			Inrush current Twidth: 234 μs	
	MCB type	B10	C10	B16	C16
	Units	14	17	22	27

Supplementary instructions

- It is recommended that customers install under voltage protection and surge protection devices in the power supply circuit of lamps to ensure the safety of electricity consumption.
- The power supply is used in combination with the terminal equipment as a part of the whole lamp. Because the EMC performance is affected by LED lamps and wiring, the terminal is set in case the manufacturer needs to reconfirm the EMC of the whole device.
- The outputs of drivers cannot be in paralleled.

Environmental specifications

Operating temperature	-20…+50°C
Storage temperature	-25…+85°C
Working humidity	10%…90%
Store humidity	5%…95%
Lifetime	at Tc 75°C: 100,000 hrs; Tc 85°C:50,000 @ 230 Vac
Maximum Tc temperature	90°C

Safety & EMC compliance

ENEC+CE+EL
EN 61347-1:2015/A1
EN 61347-2-13:2014/A1
EN IEC 62384
EN IEC:55015:2019+A11
EN IEC 61547
EN IEC 61000-3-2:201+/A1
EN 61000-3-3:2013+A1:2019+A2

CCC

SAA
AS 61347.2.13
AS/NZS 61347.1

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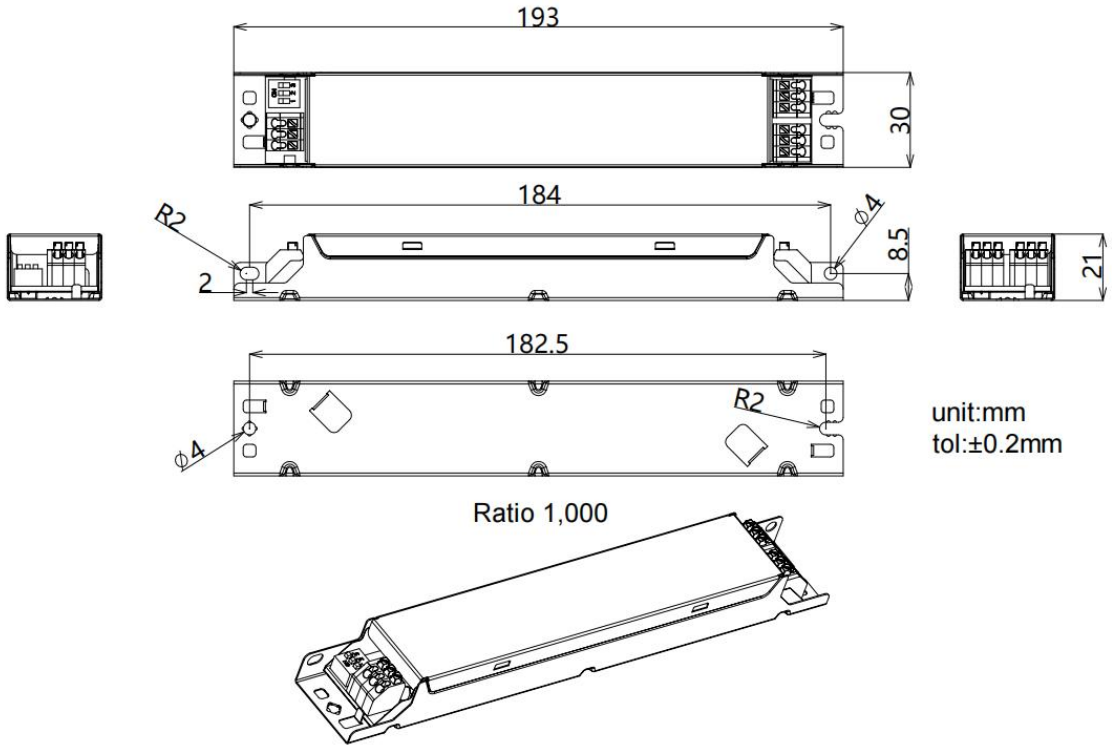
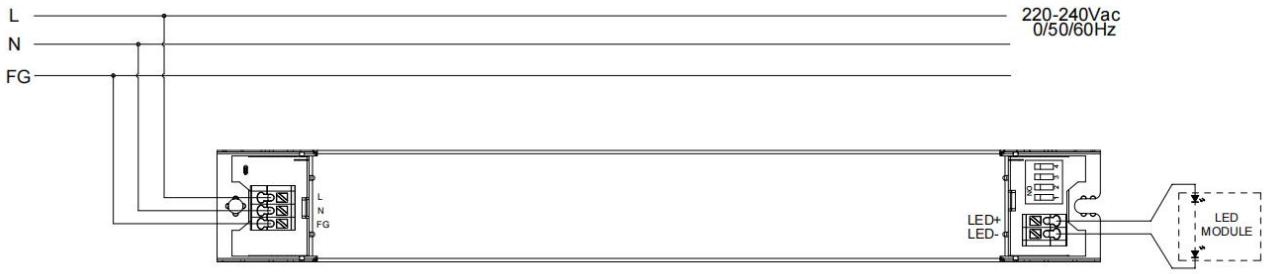
Dimensions

Housing dimensions	
Length (L)	193 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.114 kg

Packaging details	
Packing units	60 pcs
Carton size	317 x 203 x 160 mm
Weight	7.5 kg



Wiring diagram



- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5…10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

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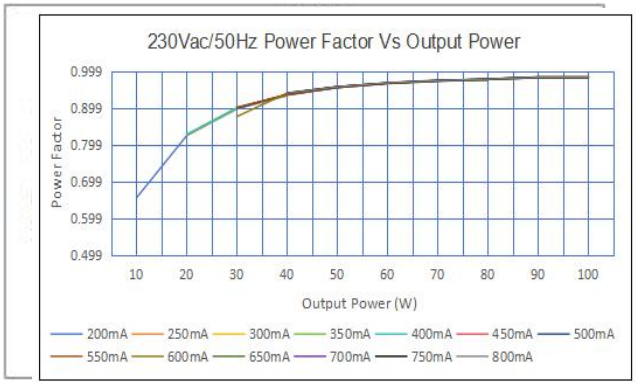
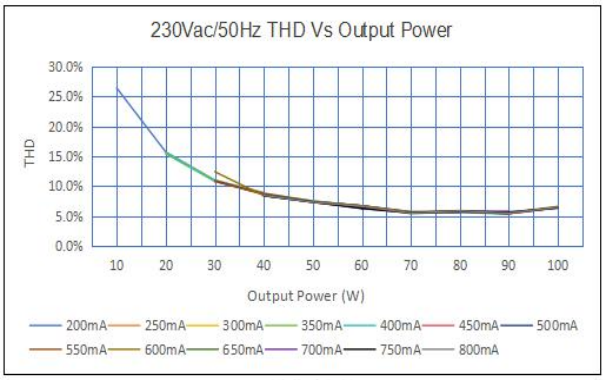
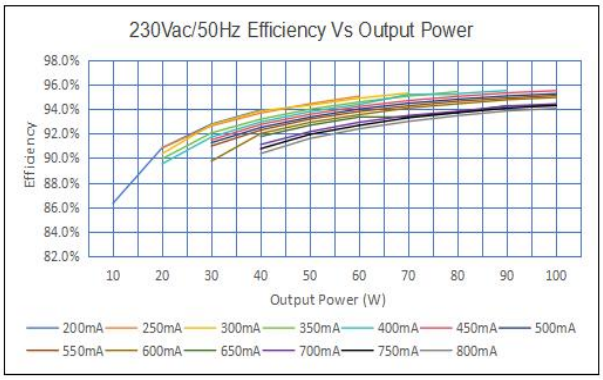
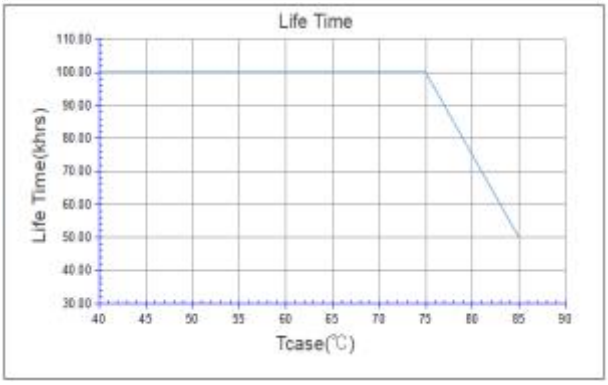
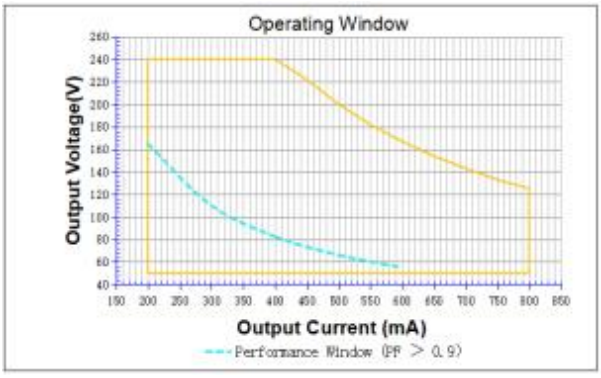
Technical information











It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 100 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
50…240 Vdc	200 mA	48
50…240 Vdc	250 mA	60
50…240 Vdc	300 mA	72
50…240 Vdc	350 mA	84
50…240 Vdc	400 mA	96
50…222 Vdc	450 mA	100
50…200 Vdc	500 mA	100
50…182 Vdc	550 mA	100
50…167 Vdc	600 mA	100
50…154 Vdc	650 mA	100
50…143 Vdc	700 mA	100
50…133 Vdc	750 mA	100
50…125 Vdc	800 mA	100

Adjustable output current with DIP switch

Vout	Pout	Iout	1	2	3	4
50...240 Vdc	48 W	200 mA	OFF	OFF	OFF	OFF
50...240 Vdc	60 W	250 mA	ON	OFF	OFF	OFF
50...240 Vdc	72W	300 mA	OFF	ON	OFF	OFF
50...240 Vdc	84W	350 mA	OFF	OFF	ON	OFF
50...240 Vdc	96 W	400 mA	ON	OFF	ON	OFF
50...222 Vdc	100 W	450 mA	OFF	ON	ON	OFF
50...200 Vdc	100 W	500 mA	OFF	OFF	OFF	ON
50...182 Vdc	100 W	550 mA	ON	OFF	OFF	ON
50...167 Vdc	100 W	600 mA	OFF	ON	OFF	ON
50...154 Vdc	100 W	650 mA	OFF	OFF	ON	ON
50...143 Vdc	100 W	700 mA	ON	OFF	ON	ON
50...133 Vdc	100 W	750 mA	OFF	ON	ON	ON
50...125 Vdc	100 W	800 mA	ON	ON	ON	ON

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